

**CERTIFICATE OF MAILING (37 CFR 1.8(a))**

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450, on:  
Date: November 25, 2003

*Valerie Peterson*  
Valerie Peterson

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: YONGSAM MOON *ET AL.*

APPLICATION NO.: 10/613,442

FILED: JULY 3, 2003

FOR: **VOLTAGE CONTROLLED OSCILLATOR**

EXAMINER: TO BE ASSIGNED

ART UNIT: 2817

CONF. NO: 6594

**Information Disclosure Statement Within Three Months of  
Application Filing or Before First Action – 37 C.F.R. § 1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

1. Timing of Submission

This information disclosure is being filed within three months of the filing date of this application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever occurs last [37 C.F.R. § 1.97(b)]. The references listed on the enclosed Form PTO-1449 (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information

☒ Copies of the following references are enclosed:

- ☒ All cited references listed on PTO 1449 Form enclosed
- ☐ References marked by asterisks
- ☐ The following:

- ☐ Copies of the following references can be found in parent U.S. Application No. :
  - ☐ All cited references
  - ☐ References marked by asterisks
  - ☐ The following:
- ☐ This application was filed after 30 June 2003 and no copies of U.S. patents nor published applications are enclosed (See Notice of Deputy Commissioner Kunin on 11 July 2003).
- ☐ The following references are not in English. For each such reference, the undersigned has enclosed (i) a translation of the reference; (ii) a copy of a communication from a foreign patent office or International Searching Authority citing the reference, (iii) a copy of a reference which appears to be an English-language counterpart, or (iv) an English-language abstract for the reference prepared by a third party. Applicant has not verified that the translation, English-language counterpart or third-party abstract is an accurate representation of the teachings of the non-English reference, though, and reserves the right to demonstrate otherwise.
  - ☐ All cited references
  - ☐ References marked by ampersands
  - ☐ The following:

3. Effect of Information Disclosure Statement (37 C.F.R. § 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

4. Fee Payment

No fees are believed due because this Information Disclosure Statement is being filed before the mailing date of the first Office Action.

- ☒ Applicant further submits that no fee is due in light of the following certification under 37 C.F.R. § 1.97(e) (check only one):
  - ☐ In accordance with 37 C.F.R. § 1.97(e)(1), the undersigned hereby states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart

foreign application not more than three months prior to the filing of this statement; or

- ☒ In accordance with 37 C.F.R. § 1.97(e)(2), the undersigned hereby states that no item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of this statement.

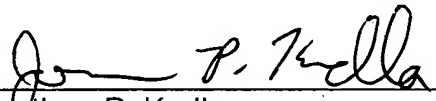
However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-2207.

5. Patent Term Adjustment (37 C.F.R. § 1.704(d))

- ☐ The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted,  
Perkins Coie LLP

Date: November 25, 2003

  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number: 10/613,442	
				Art Unit No.: 2817	
				Filing Date: July 3, 2003	
				First Named Inventors: Yongsam Moon et al.	
				Examiner: To be assigned	
Sheet 1 of 2		Attorney Docket No. 59472-8086.US02			

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			

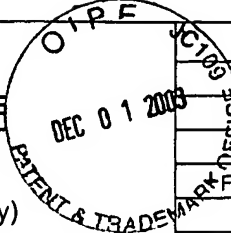
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.		T
	A	Lee, C. Yoo, W. Kim, S. Chai, and W. Song, "A 622Mb/s CMOS Clock Recovery PLL with Time-Interleaved Phas Detector Array," in <i>IEEE ISSCC Dig. Tech. Papers</i> , Feb. 1996, pp. 198-199.		
	B	Fiedler, R. Mactaggart, J. Welch, and S. Krishnan, "A 1.0625 Gbps Transceiver with 2x-Oversampling and Transmit Signal Pre-Emphasis," in <i>IEEE ISSCC Dig. Tech. Papers</i> , Feb. 1997, pp. 238-239.		
	C	R. Gu, J. M. Tran, H.-C. Lin, A.-L. Yee, and M. Izzard, "A 0.5 – 3.5Gb/s Low-Power Low-Jitter Serial Data CMOS Transceiver," in <i>IEEE ISSCC Dig. Tech. Papers</i> , Feb. 1999, pp. 352-353.		
	D	T. H. Lee, K. S. Donnelly, J. T. C. Ho, J. Zerbe, M. G. Johnson, and T. Ishikawa, "A 2.5 V CMOS Delay-Locked Loop for an 18 Mbit, 500 Megabyte/s DRAM," <i>IEEE J. Solid-State Circuits</i> , Vol. 29 (12/1994), pp. 1491-1496.		
	E	Efendovich, Y. Afek, C. Sella, and Z Bikowsky, "Multifrequency Zero-Jitter Delay-Locked Loop," <i>IEEE J. Solid-State Circuits</i> , Vol. 29, No. 1 (1/1994), pp. 26-70.		

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Form PTO-1449 (Modified)  
(Use several sheets if necessary)



**COMPLETE IF KNOWN**

Application Number: 10/613,442  
Art Unit No.: 2817  
Filing Date: July 3, 2003  
First Named Inventors: Yongsam Moon et al.  
Examiner: To be assigned

Sheet 2 of 2 Attorney Docket No. 59472-8086.US02

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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## **FOREIGN PATENT DOCUMENTS**

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		Office	NUMBER	Kind Code (if known)				

## **OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
	F	S. Sidiropoulos, and M. A. Horowitz, "A Semi-Digital Dual Delay-Locked Loop," <i>IEEE J. Solid-State Circuits</i> , Vol. 32, No. 11, (11/1997), pp. 1683-1692.	
	G	Y. Moon, J. Choi, K. Lee, D.-K. Jeong, and M.-K Kim, "An All-Analog Multiphase Delay-Locked Loop Using a Replica Delay Line for Wide-Range Operation and Low-Jitter Performance," <i>IEEE J. Solid-State circuits</i> , Vol. 35, (3/2000), pp. 377-384.	
	H	Ian A. Young, J. K. Greason, and K. L. Wong, "A PLL Clock generator with 5 to 100 MHz of Lock Range for Microprocessors", <i>IEEE Journal of Solid-State Circuits</i> , Vol. SC-27, (11/1992), pp. 1599-1607.	

EXAMINER

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